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**ABSTRACT OF THE DISCLOSURE**

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A vehicle alignment gauging system measures a linear dimension and generates an output signal corresponding to the measured linear dimension. A storage device stores reference data corresponding to standard reference dimensions for a selected vehicle, and a comparator compares the output signal with a selected reference dimension from the storage means and generates an error signal indicative of the variation therebetween. A visual indication of the magnitude of the variation is provided thereby to provide a quantitative indication of structural misalignment in use.

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